

Printing date 08.03.2023

Revision date: 08.03.2023

1 Identification

Product Name: Hydrogen Peroxide 60%

Other Means of Identification: Substance

Recommended Use of the Chemical and Restriction on Use:

Paper & Pulp Bleaching, Semiconductor, Reagent

Details of Manufacturer or Importer:

Titan Ag Pty Ltd
Princes Street Marina
Suite 15/16 Princes Street
Newport NSW 2106

Phone Number: 02 9999 6655

Emergency telephone number: 02 9999 6655

2 Hazard(s) Identification

Hazardous Nature:

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).



Flame over circle

Oxidising Liquids 2

H272 May intensify fire; oxidizer.



Corrosion

Skin Corrosion/Irritation 1B

H314 Causes severe skin burns and eye damage.

Eye Damage 1

H318 Causes serious eye damage.



Acute Toxicity (Oral) 4

H302 Harmful if swallowed.

Acute Toxicity (Inhalation) 4

H332 Harmful if inhaled.

STOT SE 3

H335 May cause respiratory irritation.

Signal Word Danger

Hazard Statements

H272 May intensify fire; oxidizer.

H302 Harmful if swallowed.

H332 Harmful if inhaled.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

Precautionary Statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P220 Keep/Store away from clothing/combustible materials.

P260 Do not breathe dusts or mists.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

(Contd. on page 2)

Safety Data Sheet

according to WHS Regulations

Printing date 08.03.2023

Revision date: 08.03.2023

Product Name: Hydrogen Peroxide 60%

(Contd. of page 1)

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P321	Specific treatment (see on this label).
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use CO ₂ , powder or water spray to extinguish.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

3 Composition and Information on Ingredients

Chemical Characterization: Mixtures**Description:** Mixture of substances listed below with nonhazardous additions.**Hazardous Components:**

CAS: 7722-84-1	Hydrogen peroxide	60%
	◆ Oxidising Liquids 1, H271; ◆ Skin Corrosion/Irritation 1A, H314; ◆ Acute Toxicity (Oral) 4, H302; Acute Toxicity (Inhalation) 4, H332; STOT SE 3, H335	

Non Hazardous Components:

CAS: 7732-18-5	Water	40%
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4 First Aid Measures

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water. Cover affected area securely with sterile, dry, loose-fitting dressing. Seek immediate medical attention.

Eye Contact:

In case of eye contact, rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15-20 minutes. Seek immediate medical attention.

Ingestion:

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Give 2-3 glasses of water to drink in small sips. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Symptoms Caused by Exposure:

Inhalation: Harmful if inhaled. May cause respiratory irritation.

Skin Contact: Causes severe skin burns.

Eye Contact: Causes serious eye damage.

Ingestion: Harmful if swallowed. Causes chemical burns to the mouth, nose, throat and oesophagus. May cause gastrointestinal irritation, nausea, diarrhoea and vomiting.

(Contd. on page 3)

Safety Data Sheet

according to WHS Regulations

Printing date 08.03.2023

Revision date: 08.03.2023

Product Name: Hydrogen Peroxide 60%

(Contd. of page 2)

5 Fire Fighting Measures

Suitable Extinguishing Media:

Use flooding amounts of water. Do not use dry chemicals or foams. Carbon dioxide may provide limited control.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include oxygen and heat. May ignite other combustible materials (e.g. wood, paper, oil). Thermal decomposition becomes self-sustaining at 141 °C and is accelerated by agitation, contact with rough surfaces, alkalies, finely divided metals and many other substances.

Product is an oxidiser and will intensify fire.

Containers close to fire should be removed only if safe to do so. Use water spray to cool fire exposed containers.

Prevent run-off from fire fighting entering drains or water courses.

HAZCHEM Code: 2P

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear approved respiratory protection, chemical resistant gloves, protective clothing and safety boots.

Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation.

Keep away from combustible materials. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

Inform respective authorities in case of seepage into water course or sewage system.

Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material.

Collect the spilled material and place into a suitable container for disposal. For large spills, if possible dam large quantities of liquid with sand or earth. Use only non-sparking tools.

7 Handling and Storage

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours or mists.

Use only outdoors or in a well-ventilated area.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:

Store in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Do not get water inside the container. Prevent contact with any organic material. Protect from heat, sparks, open flames and other sources of ignition. Keep away from acids, bases, metals, salts of metals, reducing agents, organic materials and flammable substances.

8 Exposure Controls and Personal Protection

Exposure Standards:

CAS: 7722-84-1 Hydrogen peroxide

WES TWA: 1.4 mg/m³, 1 ppm

(Contd. on page 4)

Safety Data Sheet

according to WHS Regulations

Printing date 08.03.2023

Revision date: 08.03.2023

Product Name: Hydrogen Peroxide 60%

(Contd. of page 3)

Engineering Controls:

Ensure adequate ventilation of the working area, keeping airborne concentrations below occupational exposure standards.

Respiratory Protection:

Use an approved full face supplied air respirator if high airborne concentrations of the material are present. See Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

Chemical resistant gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information.

When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:

Safety glasses with top and side shields or goggles. See Australian/New Zealand Standards AS/NZS 1336 and 1337 for more information.

9 Physical and Chemical Properties

Appearance:

Form:	Liquid
Colour:	Colourless
Odour:	Slightly pungent
Odour Threshold:	No information available
pH-Value:	No information available
Melting point/freezing point:	No information available
Initial Boiling Point/Boiling Range:	114-119 °C
Flash Point:	Does not flash up to boiling
Flammability:	Contact with combustible material may cause fire.
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	No information available
Upper:	No information available
Vapour Pressure at 30 °C:	0.99 hPa
Relative Density at 15 °C:	1.199 - 1.245
Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water:	Soluble
Partition Coefficient (n-octanol/water):	No information available
Viscosity at 20 °C:	1.17 mPa·s

10 Stability and Reactivity

Possibility of Hazardous Reactions:

May evolve oxygen when heated or on prolonged storage. Thermal decomposition becomes self-sustaining at 141 °C. May ignite other combustible materials.

Chemical Stability: Stable at ambient temperature and under normal conditions of storage and use.

Conditions to Avoid: Heat, sparks, open flames and other sources of ignition.

Incompatible Materials:

Acids, bases, metals, salts of metals, reducing agents, organic materials and flammable substances.

(Contd. on page 5)

Safety Data Sheet

according to WHS Regulations

Printing date 08.03.2023

Revision date: 08.03.2023

Product Name: Hydrogen Peroxide 60%

(Contd. of page 4)

Hazardous Decomposition Products: Oxygen and heat.

11 Toxicological Information

Toxicity:**LD50/LC50 Values:****CAS: 7722-84-1 Hydrogen peroxide**

LD50	880 mg/kg (Mus musculus (mouse)) (Intraperitoneal)
	620 mg/kg (Rattus norvegicus (rat)) (Subcutaneous)
	15,000 mg/kg (Oryctolagus cuniculus (rabbit)) (Intravenous)

Acute Health Effects**Inhalation:** Harmful if inhaled. May cause respiratory irritation.**Skin:** Causes severe skin burns.**Eye:** Causes serious eye damage.**Ingestion:**

Harmful if swallowed. Causes chemical burns to the mouth, nose, throat and oesophagus. May cause gastrointestinal irritation, nausea, diarrhoea and vomiting.

Skin Corrosion / Irritation: Causes severe skin burns.**Serious Eye Damage / Irritation:** Causes serious eye damage.**Respiratory or Skin Sensitisation:** Based on classification principles, the classification criteria are not met.**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.**Carcinogenicity:**

Based on classification principles, the classification criteria are not met.

Hydrogen peroxide is classified by IARC as Group 3 - Not classifiable as to its carcinogenicity to humans.

Reproductive Toxicity: Based on classification principles, the classification criteria are not met.**Specific Target Organ Toxicity (STOT) - Single Exposure:** May cause respiratory irritation.**Specific Target Organ Toxicity (STOT) - Repeated Exposure:**

Based on classification principles, the classification criteria are not met.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.**Chronic Health Effects:** No information available**Existing Conditions Aggravated by Exposure:** No information available

12 Ecological Information

Ecotoxicity:**Aquatic toxicity:**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

CAS: 7722-84-1 Hydrogen peroxide

LC50/96 h	16.4 mg/l (Pimephales promelas (fathead minnow))
LC50/48 h	2.4 mg/l (Daphnia magna (water flea))

Persistence and Degradability: Readily biodegradable.**Bioaccumulative Potential:** Bioaccumulation is not expected to occur.**Mobility in Soil:** Low mobility expected.**Other adverse effects:** No further relevant information available.

(Contd. on page 6)

Safety Data Sheet

according to WHS Regulations

Printing date 08.03.2023

Revision date: 08.03.2023

Product Name: Hydrogen Peroxide 60%

(Contd. of page 5)

13 Disposal Considerations

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.

Special Precautions for Landfill or Incineration:

Please consult your state Land Waste Management Authority for more information.

14 Transport Information

UN Number

ADG, IMDG, IATA

UN2014

Proper Shipping Name

ADG, IMDG, IATA

HYDROGEN PEROXIDE, AQUEOUS SOLUTION

Dangerous Goods Class

ADG Class:

5.1 (8)

Packing Group:

ADG, IMDG, IATA

II

EMS Number:

F-H,S-Q

Hazchem Code:

2P

Transport/Additional information:

Transport by air is forbidden unless IATA special provisions A2 and A75 are complied with.

Excepted quantities (EQ):

E2

Limited Quantities:

1L

Packagings & IBCs - Packing Instruction:

P504, IBC02

Packagings & IBCs - Special Packing Provisions: PP10, B5

Portable Tanks & Bulk Containers - Instructions: T7

Portable Tanks & Bulk Containers - Special

Provisions: TP2, TP6, TP24

15 Regulatory Information

Australian Inventory of Industrial Chemicals:

All ingredients are listed.

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poison Schedule:

Poisons Schedule: 6

16 Other Information

Date of Preparation or Last Revision: 08.03.2023

Prepared by: MSDS.COM.AU Pty Ltd

www.msds.com.au

Abbreviations and acronyms:

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

(Contd. on page 7)

Safety Data Sheet

according to WHS Regulations

Printing date 08.03.2023

Revision date: 08.03.2023

Product Name: Hydrogen Peroxide 60%

(Contd. of page 6)

Oxidising Liquids 1: Oxidising liquids, Hazard Category 1

Oxidising Liquids 2: Oxidising liquids, Hazard Category 2

Acute Toxicity (Oral) 4: Acute toxicity – Category 4

Skin Corrosion/Irritation 1A: Skin corrosion/irritation – Category 1A

Skin Corrosion/Irritation 1B: Skin corrosion/irritation – Category 1B

Eye Damage 1: Serious eye damage/eye irritation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Disclaimer

This SDS is prepared in accord with the Safe Work Australia document “Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - July 2020”.

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